

ZHMAYEVA, Z. M., KARULIN, V. E., PCHELKINA, A. A.

"On related epizootics of various infections in nature." p. 10h

Desystoye soveshchanive po parazitologicheskim problemam i priodnooch-agovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 25h pp.

Inst. of Epidemiology and Microbiology, AMS USSR Moscow

#### KARULIN, B. E., PCHELKIKA, A. A. ZHMAYEVA. Z. M..

"The results of the study of natural Q-fever foci in some areas of the Soviet Union, and the methods of classifying them by type." p. 134

Desyatoye Soveshchaniye po parazitologicheskim problemen i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

ASE: 07/19/2001

CIA-RDP86-00513R08206483000 s/056/63/044/001/056/08206483000 "Packing" of the exoltation levels of light nuclei Rear the Serov, V. I., Zhmaylo, B. A. Zhurnal eksperimentalinoy i teoretioheskoy fiziki, v. 44, The concentration of excitation levels near the threshold was proved to two-particle decay of two-particle decay of Suppl. 30, 1, 1962).

The concentration of excitation levels near the threshold according to the types A 1, 18 studied according are for two-particle decay of Suppl. 30, 1, 1962).

The concentration of excitation levels near the studied according are for two-particle decay of two AUTHORS : TITLE method by Inglis (Nucl. Phys. 30, 1, 1962). Known experimental data for used to analyze the correlation between threshold and level position used to analyze the correlation between threshold and level position. used to analyze the correlation between threshold and level position for that, in nuclei from He5 to C and observed particle emission thresholds above the levels near neutron emission, the excitation levels concentrate near the the case of neutron emission, PERIODICAL levels near neutron and charged-particle emission thresholds shows that, in the case of neutron emission, charged-particle emission, at a the threshold, and in the case of charged particle excitation levels near threshold, and in the concentration of excitation levels nucleon grouping threshold, and it. The concentration of different nucleon distance from it. distance from it. The concentration of excitation levels near the thresh olds in light nuclei confirms the existence of different nuclei confirms the exis

24,6500

s/056/62/043/002/019/053 B104/3108

AUTHOR:

Zhmaylo, V. A.

TITLE:

Use of an optical potential for estimating the neutron

absorption cross section of an excited nucleus

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,

no. 2(8), 1962, 473-475

TEXT: The parameters of the optical potential are estimated on the assumption that the neutron absorption cross section of an excited nucleus changes when the nucleon absorption coefficient of the nuclear matter increases or when the radial nucleon density distribution changes. The parameters obtained are used to calculate the change in the neutron absorption cross section of a nucleus during its excitation. It is shown that for a nuclear excitation energy  $E_0$  of  $\sim 20$  MeV and for an incident neutron energy  $E_n$  of  $\sim 1-2$  MeV,  $A\sim 100$ , the neutron absorption cross section  $\sigma_{c}(\varepsilon_{n}, \, \varepsilon_{e})$  is one and a half to two times as large as  $\sigma_{c}(\varepsilon_{n}, \varepsilon_{e} = 0)$ . The imaginary part of the optical potential is found to

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Use of an optical potential ...

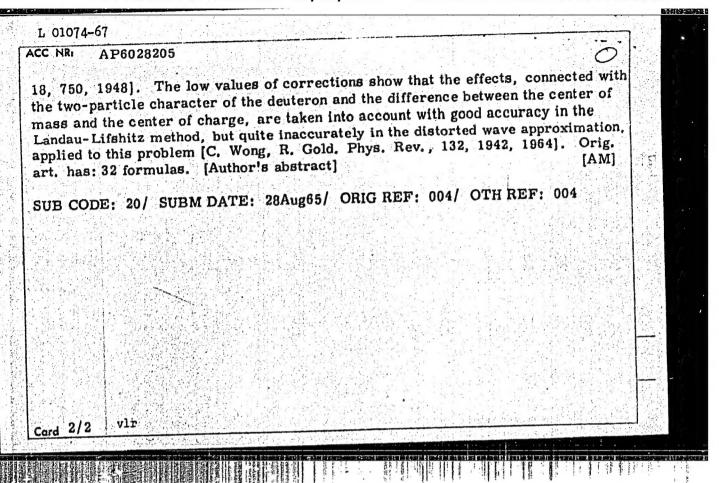
change on excitation of the nucleus. This is due to the change in nucleon energy distribution when the Fermi gas is "heated". The dependence of the neutron absorption cross section on the excitation energy shifts the maximum of the neutron evaporation spectrum only by a few per cent to lower energies. The excited nucleus is assumed to be in equilibrium.

SUBMITTED: January 15, 1962

Card 2/2

"Compaction" of the excitation levels of light nuclei.near the threshold. Zhur. eksp. i teor. fiz. 44 no.1:332-334 Ja 163. (MIRA 16:5)		
(Quantum statistics)	(Muolei, Atomic)	
0		

C NR: AP6028205 SOURC	CE CODE: UR/0367/66/003/006/1022/1031
UTHOR: Zhmaylo, V. A.	32
RG: none	19
TTLE: The Coulomb photodisintender of the coulomb photodisinte	egration of the <u>deuteron</u> as a specific case of the
OURCE: Yadernaya fizika, v. 3	, no. 6, 1966, 1022-1031
OPIC TAGS: coulomb field, thr lisintegration, coulomb disintegr	ee body problem, approximation method, deuteron ation, wave equation
for solving (in a specific case) the being studied in application to the Coulomb field of a heavy nucleus. obtaining an equation more suitab appropriate solution is found. The	e three-body problem in quantum mechanics, is problem of a deuteron disintegration in the This equation is modified for the purpose of ole for successive approximations, after which the me amplitude for the Coulomb disintegration of the f this solution and compared with the corresponding Lifshitz [L. D. Landau, Ye. M. Lifshitz. ZLETF,



# "APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064830009-9

ZHMEYDO, A. T.

USSE/ Medicine - Cold, Mifects of Medicine - Pross

Teb 1948

"Restoration of Vital Functions in Vertebrate Animals Exposed to Freezing, Depending on Degree of Freezing and Rate of Warming" S. N. Mateko, A. T. Zhmeydo, V. M. Selivanova, Inst Experimental Physiol and Thereapy, Ministry Public Health USSR, 4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, He 4

Gives details of series of experiments on fregs: subjected to various changes in temperature. Describes processes of ice formation in central parts of the body. Submitted by Academician I. I. Shmal gauzen, 4 Dec 1947

PA 43/43T65

USSR/Medicine - Frogs Temperature, Body

"Ice Formation and Features of the Body Temperature Curve of Vertebrates in the Process of Freezing," ". N. Matsko, ". T. Zhmeydo, Inst of Experimental Physiol and Therapy, Min of Pub Health RSFSR, 8 pp

"Zool Zhur" No 3

Conducts dissections after freezing of fall-winter and summer frogs at various times after forming of ice in the bodies to establish time required for formation of ice in various organs and changes: of body temperature during freezing. Sets up a system of five stages of freezing ependent on organs of the body in which ice is formed Data arranged in four tables.

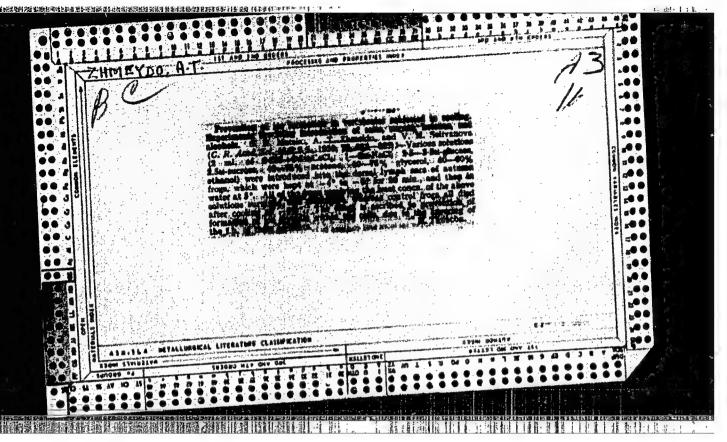
PA 151747

MATSKO, S.N., and A.T. ZHMEIDO.

Vliianie, okazyvaemoe nekotorymi veshchestvami na protsess zamerzaniia i na vosstanovlenie zhiznannykh funktsii u podvergnutykh zamorashivaniiu pozvonochnykh zhivotnykh. (Akademiia nauk SSSR. Doklady, novaia seriia, 1949. t. 69, no. 5, p. 703-706, zhivotnykh.) Title tr.: The influence exerted by certain substances upon the process of freezing and upon the restitution of vital functions in vertebrate animals subjected to freezing.

Contains a study on male frogs injected with 40 percent alcohol, exposed to air temperature of -4° to -6°C. and rewarmed in water of 20°C. In the experimental animals, the amount of water frozen in the body at a temperature of -1.5°C. was 21/2 - 8 times the amount of water frozen in the body at a temperature of -1.5°C. was 21/2 - 8 times smaller than in controls. The lag in ice formation was made pronounced in the alcohol-treated animals than in partly desiccated ones used for comparison. Bibliography (7 interes).

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ZHIZN'KO, L. F.

Zhmen'ko, L. F.

"The development of pig embryos and metabolism in pregnant sows with various types of feed." Min Higher Education Ukrainian SSR. Khar'kov Zootechnical Inst. Khar'kov, 1956. (Dissertation for the Degree of Candidate in Agricultural Sciences).

Knizhnaya letopis! No. 21, 1956. Moscow-

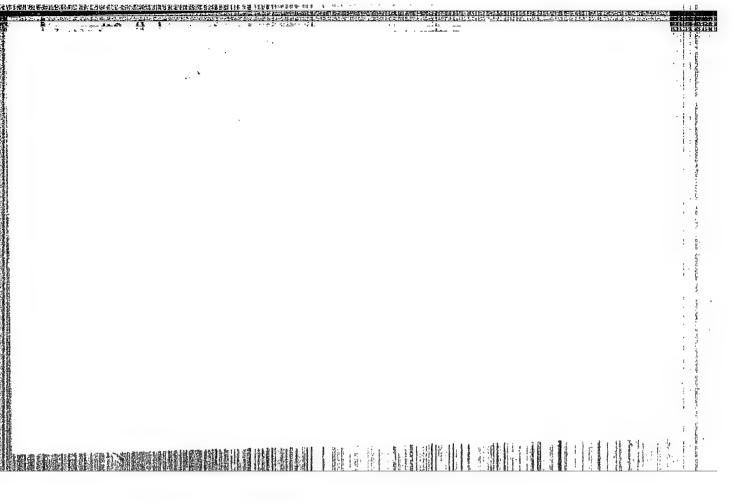
BEHEZOVSKAYA, N.N.; BESSONOV, S.M.; GALKIHA, A.F.; GORBUHOVA, V.I.; GRAFSKAYA, Z.S.; ZHUEYDO, A.T.; IAGUH, G.G.; KALIHIHA, H.H.; KOCHETKOVA, Z.V.; MATSKO, S.N.; CRLOVA, L.V.; TUPIKOVA, A.A.

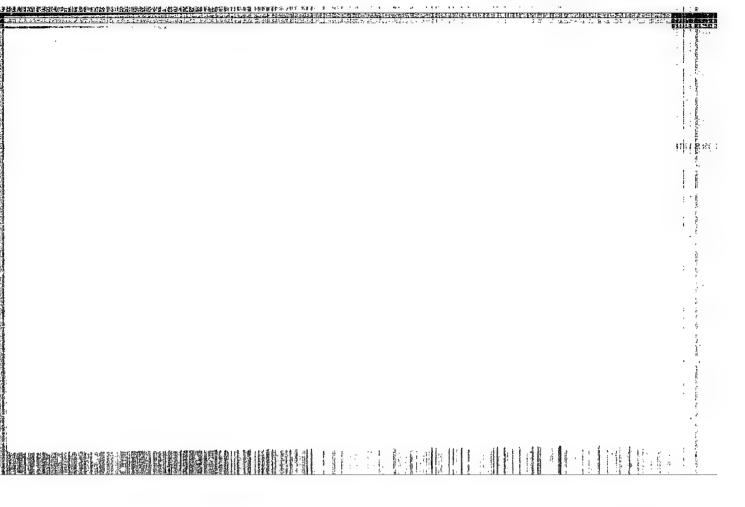
Results the of vitaminization of food in public eating establishments. Vop.pit. 15 no.5:37-42 S-0 156. (MIRA 9:11)

1. Iz laboratorii (zav. - A.Kh.Petrachev) sanitarno-epidemiologicheskoy stantsii Frunzenskogo rayona, iz otdela tekhnologii (zav. - kandidat tekhnicheskikh nauk S.M.Bessonov) Instituta pitaniya AMN SSSSR i iz A.D.Ye - vitaminnogo otdela (zav. - prof. S.N.Matsko) Gosudarstvennogo nauchno-issledovatel skogo instituta vitaminologii Ministerstva zdravo-okhraneniya SSSR, Moskva.

(FOOD,
vitemin supplement, results (Rus))
(VITAMINS,
supplement in food (Rus))







ANISOVA, A.A., ZHMEYDO, A.T., GORBUHOVA, V.I. SPIRIMA, V.P.

Vitamin C indexes in preschool children. Pediatriia 36 no.6156-59
(MIRA 11t6)

1. Is otdels fiziologii Instituta pediatrii Ministerstva sdravookhraneniya RSFSR (sav. - doktor med.nauk N.Ye., Ozeretskovkaya)
i A.D.E. vitaminnogo otdels (zav. - prof. S.N. Matsko) Instituta
vitaminologii Ministerstva sdravockhraneniya SSSE.

(VITAMIN C, metab.

utilisation, eff. of decreased allottment in preschool ohild. (Rus))

(CHILD

eff. of decreased vitamin C allottment on preschool age child. (Rus))

ABEZGAUZ, N.N.; ANISOVA, A.A.; GORBUNOVA, V.I.; ZHWEYDO, A.T.; LEONTOVICH, V.A.

拉納度時期的經歷到的經歷的時期。1 11年 2 11年 2

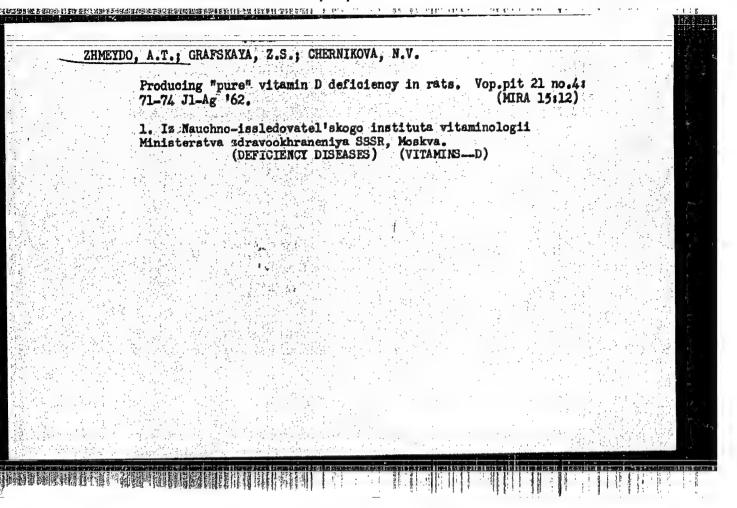
Effect of C-vitaminization of donors on the preservation of the phagocytic reaction and the vitamin C level in leucocytes stored under refrigeration. Probl. gemat. i perel. krovi 10 no.1:45-47 Ja 165. (MIRA 19:1)

1. Laboratoriya konservirovaniya krovi (zav. - prof. F.R. Vinograd-Finkel') TSentral'nogo instituta gematologii i perelivaniya krovi Ministerstva zdravookhraneniya SSSR i vitaminnaya laboratoriya (zav. - prof. S.N. Matsko) Instituta vitaminologii, Moskva.

MATSKO, S.N.; GORBUNOVA, V.I.; ANISOVA, A.A.; ZHMEYDO, A.T.

Criteria for vitamin C requirements; observations on children. Vop. pit. 21 no.6:52-56 N-D 162. (MIRA 17:5)

1. Iz Nauchno-issledovatel skogo instituta vitaminologii Ministerstva zdravookhraneniya SSSR, Moskva.



# "APPROVED FOR RELEASE: 07/19/2001

### CIA-RDP86-00513R002064830009-9

CHMIBERODZKIY

POLAND/ Microbiology. General Microbiology

F-1

Abs Jour: Ref Zhur - Biol., No 6, 1958, 24061

: Khodkovskiy, Parnas, Zhmigrodzkiy : Not given Inst:

: Further Study of Atypical Forms of Brucella Isolated in Poland. Title

Orig Pub: Med. doswiad. i mikrobiol., 1957, 9, No 3, 275-279

Abstract: No abstract.

Card 1/1

ENT(m)/ENP(w)/ENA(d)/T/ENP(t)/ENP(z)/ENP(b) JD ACCESSION NR: AP5022581 UR/0129/65/000/009/0042/0046 669.14.018.25 AUTHOR: Zhmikhorskiy, E. (Zmihorski, E.) (Warsaw) who distributed the second of the party of t TITLE: Modified high-speed steels, with a high carbon content SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1965, 42-46 TOPIC TAGS: carbon steel, high speed steel, hardness, electromagnetic property, metal heat treatment, toughness ABSTRACT: High-carbon high-speed steels are more wear-resistant as well as more economical with respect to the content of alloy elements. In this connection, the author investigated the effect of different types of heat treatment on the structure, hardness, wear resistance, toughness, and electromagnetic properties of experimental melts of Polish high-speed steels SNC (1.19% C, 0.3-0.6% Mm, 0.47% Si, 3.54% Cr, 8.4% W, 2.1% V, 0.28% Ti, 0.28-0.6% Al, 0.28% Ni, 0.10% Cu), SWC12 (1.13% C, 0.77% Mm, 0.28% Si, 4.2% Cr, 11.9% W, 2.47% V, 0.29% Ti), and SWC18 (1.24% C, 0.3% Mm, 0.19% Si, 4.17% Cr, 17.1% W, 1.4% V, 0.19% Hi, C.14% Cu). Specimens of these steels were quenched from 900-1240°C (and in isolated instances, 1/2 Card

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### CIA-RDP86-00513R002064830009-9

L 1054-66

ACCESSION HR: AP5022581

from 1280°C) and subsequently tempered at 175, 550, 570, 600, and 650°C for 1 hr. Then their mechanical properties were examined with the aid of different testing machines and their electromagnetic properties, with the aid of a Cornelius electronic device for nondestructive testing. Findings: the required hardening temperature for the steels SMC, SMC12, and SMC18 decreases with increasing hardening ture for the steels SMC, SMC12, and SMC18 decreases with increasing hardening ture and vice versa, and optimally it is 1050-1200°C. The hardness of high-speed time and vice versa, and optimally it is 1050-1200°C. The hardness of high-speed steels may remain the same following different regimes of heat treatment. Constells may remain the same following different regimes of heat treatment. Constells may remain the classical high-speed steels 18-4-1 and with the German high-parisons with the classical high-speed steels 18-4-1 and the figures.

ASSOCIATION: none

SUBMITTED: 00

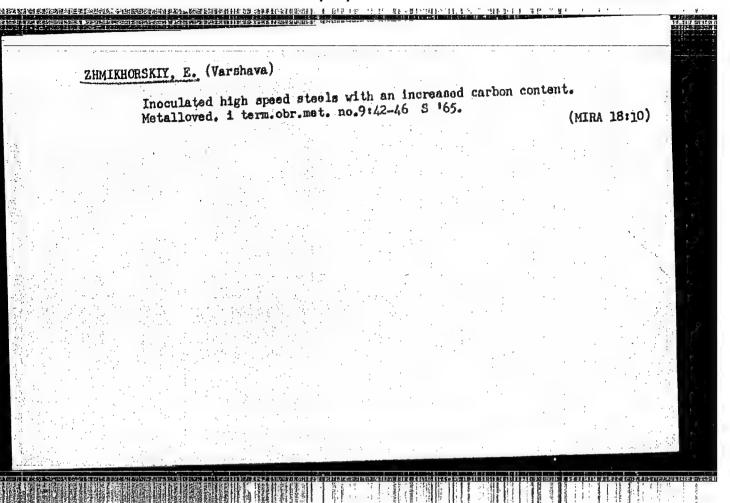
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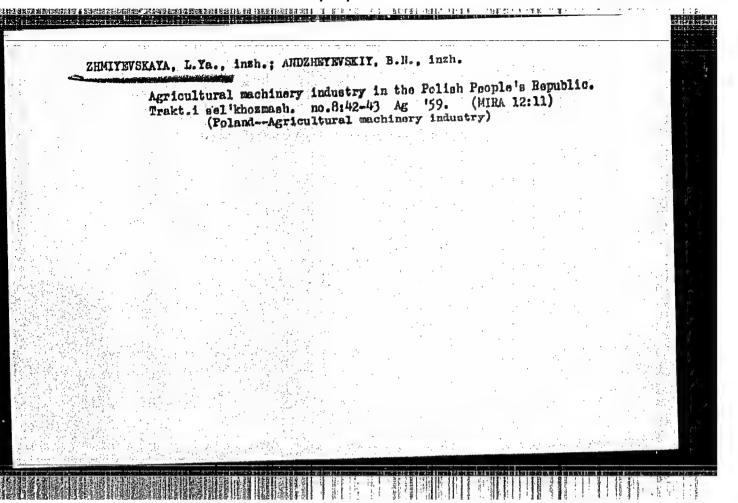
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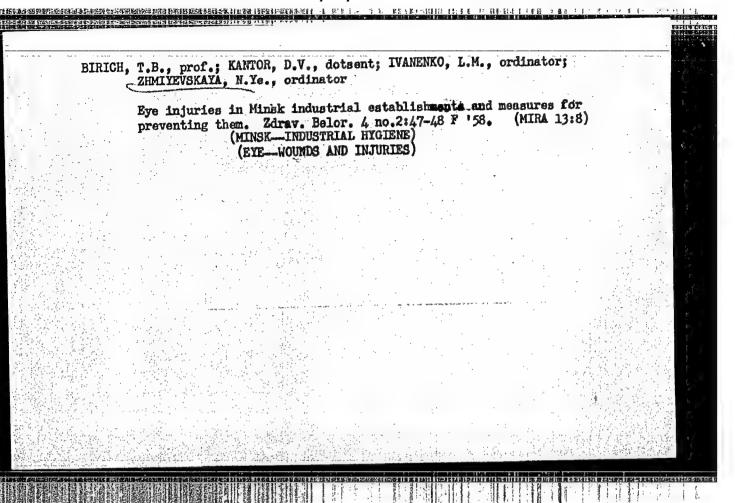


#### ZWITKHOWSKA VTKTORTY

Zhmikhovska, Viktoriya "A comparative evaluation of methods of treating acute odontogenic inflammatory processes of the maxillary-facial region." Min Health RSFSR. Moscow Medical Stomatological Inst. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Kmizhnaya letopis!, No. 27, 1956. Moscow. Pages 94-109; 111.

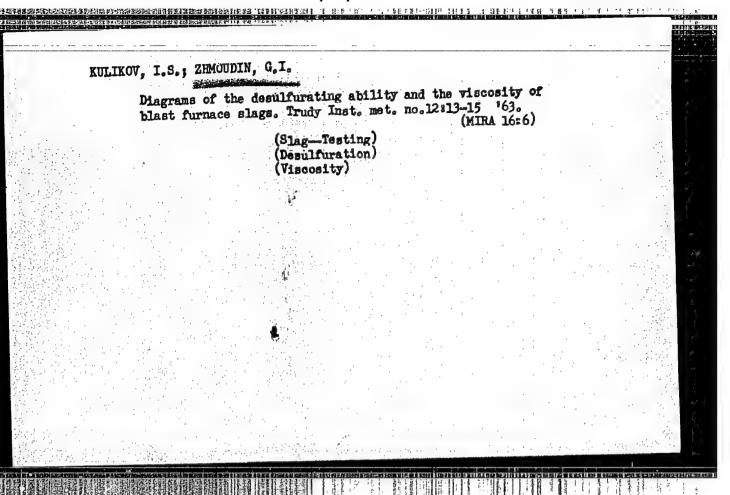


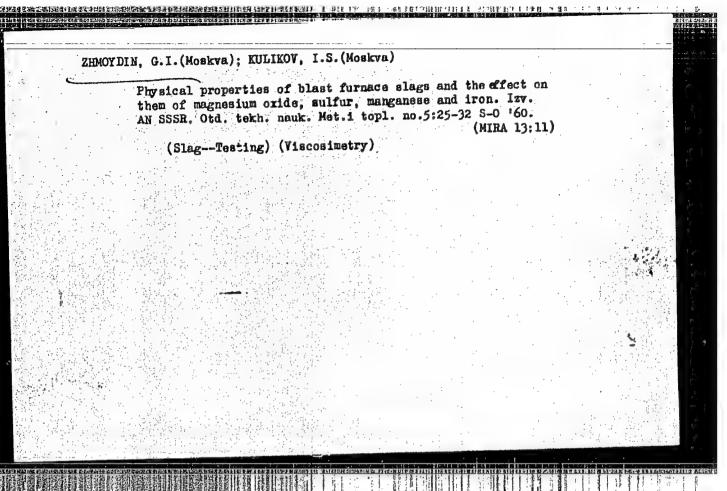


# LUKACHER, G.Ya., kand.med.nauk; FAL CHUK, A.Ya.; ZHMOTOVA, Ye.A.

Medical expertise of the capacity for work and rehabilitation of persons following surgery for hermia of an intervertebral disk and hypertrophy of the ligamentum flavum of the lumbar region. Sov. med. 28 no.3:104-108 Mr 165. (MIRA 18:10)

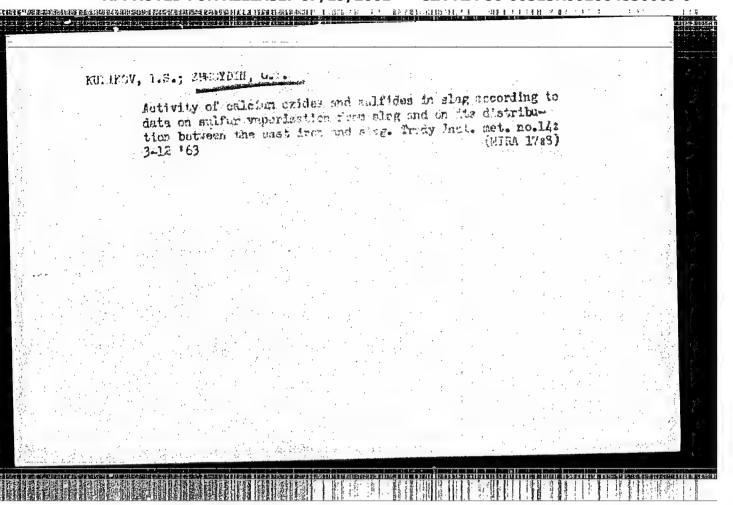
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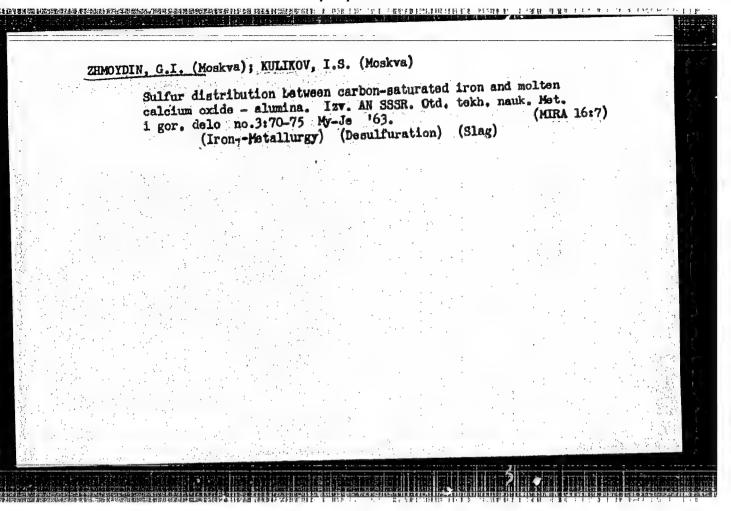




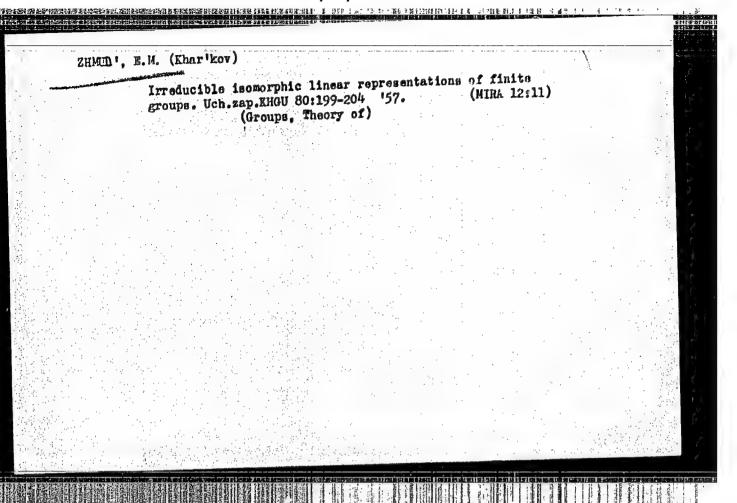
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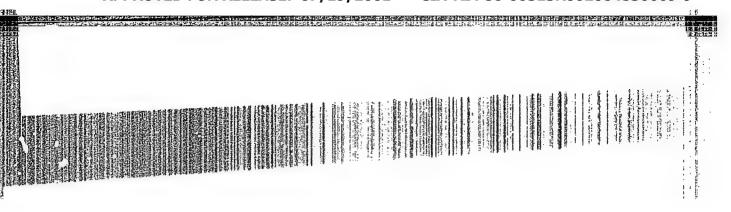
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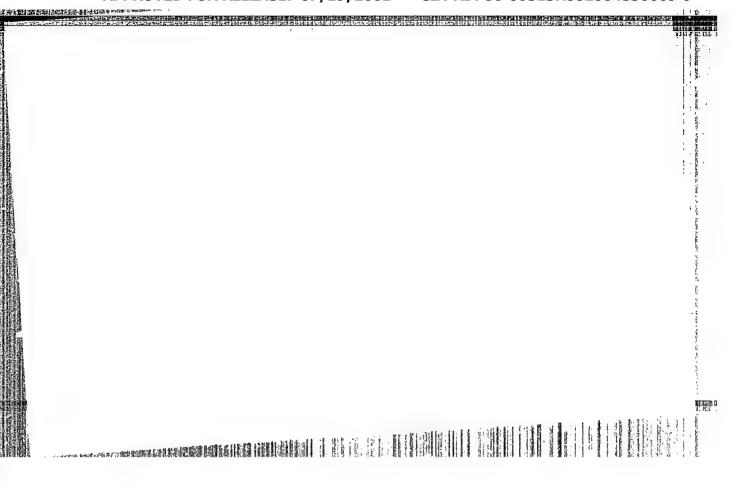


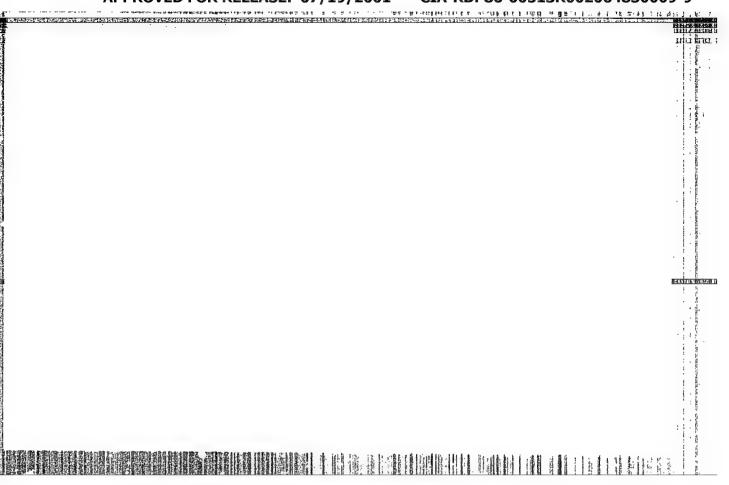


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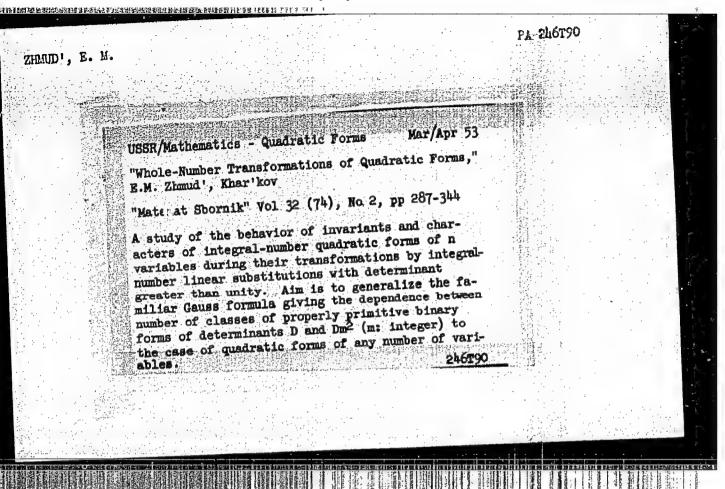


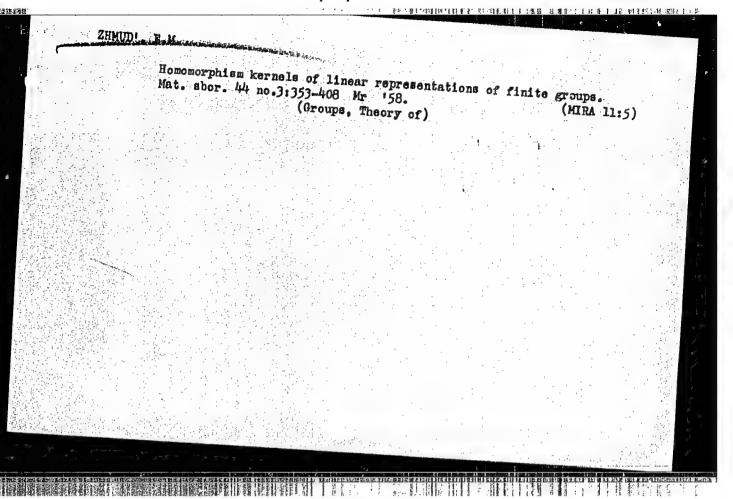




#### "APPROVED FOR RELEASE: 07/19/2001

#### CIA-RDP86-00513R002064830009-9





AUTHOR: Zhmud', E.M. (Khar'kov) 39-44-3-3/3 TITLE: On Homomorphy Kernels of Linear Representations of Finite Groups (O yadrakh gomomorfizmov lineynykh predstavleniy konechnykh grupp) PERIODICAL: Matematicheskiy Sbornik, 1958, Vol 44, Nr 3, pp 353-408 (USSR) ABSTRACT: The present paper is a development of the author's publication [Ref 8] of two years ago concerning isomorphic linear representations of finite groups. Let of be a finite group and P a field, the characteristic of which does not divide the order of the group. The normal subgroup of of is called k-kernel, if \$\mathcal{y}\$ is the homomorphy kernel of a linear representation of of which is decomposed into k irreducible components In  $\S$  1 besides of the kernels the author considers a certain orthogonal system  $s_i^{(k)}(X)$  ( $i=1,2,\ldots,n_k$ ) which depinds on the characters of the groups and which is defined on the set  $\mathcal{E}_{k}(\mathcal{G})$  of the systems  $X = \{G_1, \dots, G_k\}$ Card 1/4

On Homomorphy Kernels of Linear Representations of Finite 39-44-3-3/3

The determination of explicit expressions for these functions leads to necessary and sufficient conditions for a normal subgroup of of to be a k-kernel. The elements of  $\mathcal{E}_k(\mathcal{F})$  are divided into classes: Let  $X \in \mathcal{E}_k(\mathcal{F})$  and  $\mathcal{W}_X$  be the minimum normal subgroup of  $\mathcal{F}$  containing the system X. Then let be  $X_1 = X_2$ , if  $X_2 = X_2$ . It is shown that: 1. The number of the functions  $\mathbf{s}^k(X)$  is equal to the number of the classes of the systems of  $\mathbf{k}$  elements of  $\mathcal{F}_k(X_1) = \mathbf{s}_k(X_2)$ , 3. the orthogonal system  $\left\{\mathbf{s}_k(X_1) = \mathbf{s}_k(X_2), 3\right\}$  is complete in the class of the functions which are invariant on the classes of  $\mathbf{k}$ -systems. From the first property it follows: The number of the  $\mathbf{k}$ -kernels of  $\mathbf{k}$  is equal to the number of the subgroups which are generated of  $\mathbf{k}$  classes of conjugate elements of  $\mathbf{k}$ . In S 2 it is proved that the classes of the set  $\mathcal{E}_k(\mathcal{F})$  generate a certain noncommutative semisimple algebra  $\mathcal{E}_k(\mathcal{F})$  generate a certain noncommutative semisimple algebra  $\mathcal{E}_k(\mathcal{F})$  generate a certain noncommutative semisimple algebra  $\mathcal{E}_k(\mathcal{F})$ . The pro-

Card 2/4

On Homomorphy Kernels of Linear Representations of Finite Groups

39-44-3-3/3

perties of  $\mathcal{L}_k$  are used in order to extend the results of § 1 to a ground field of arbitrary characteristic. In § 3 the special case k=1 is considered in detail. Let  $J_i$  (i=1,...,m) be the homomorphy kernels of the irreducible representations of § . As the adjoint representation  $\Pi_i$  of § the author denotes the greatest component (with respect to the number of the irreducible parts) of a regular representation of §, all the irreducible parts of which possess the homomorphy kernel  $J_i$ . The functions  $s_i^{(k)}(X)$  are transformed for k=1 into the traces  $s_i(G)$  (i=1,...,m) of the adjoint representations, The classes of  $\mathcal{E}_k(\mathcal{P})$  are transformed into sets of elements of § - "expanded classes". Properties of the traces and of the "expanded classes" are considered, furthermore the algebra  $\mathcal{E}$  which is generated by the expanded classes of § .

Card 3/4

On Homomorphy Kernels of Linear Representations of 39-44-3-3/3 Finite Groups § 4 is devoted to a detailed study of the functions  $s^{(k)}(x)$ 

§ 4 is devoted to a detailed study of the functions  $s_i^{(k)}(x)$  for which a product representation is obtained. There are 10 references, 1 of which is Soviet, 1 English, 1 American, 4 German, and 3 Japanese.

SUBMITTED:

April 24, 1956

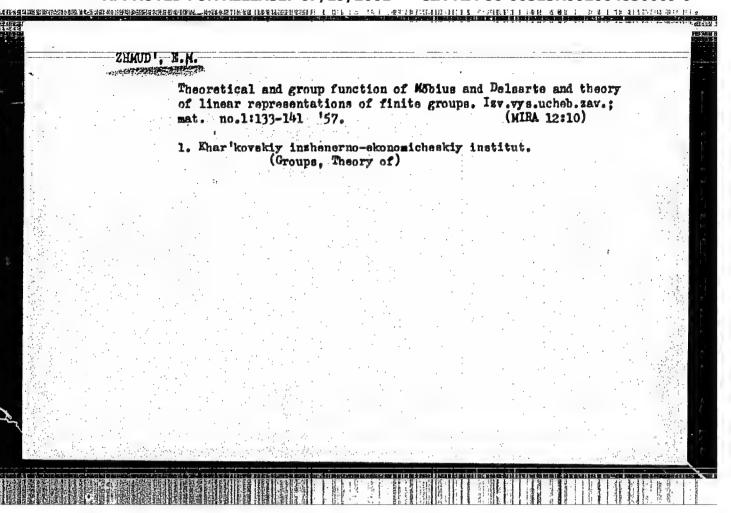
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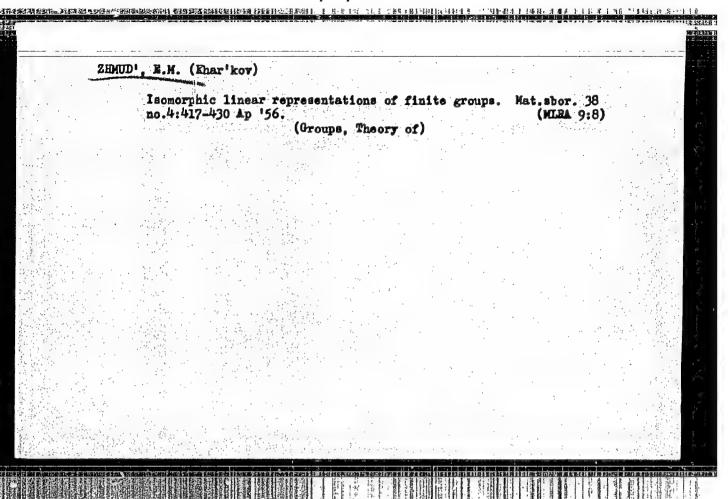
1. Finite groups - Mathematical analysis 2. Algebra - Theory

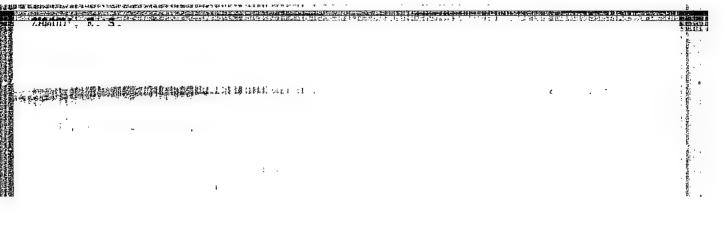
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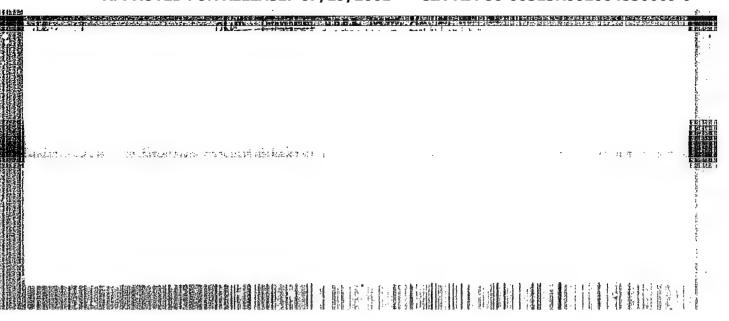
USCOMM-DC-54,998



	JD', E.M.
	Representations of finite Abelian groups by substitutions. Uch.zap.KHGU 115:131-134 '61. (MIRA 17:5)
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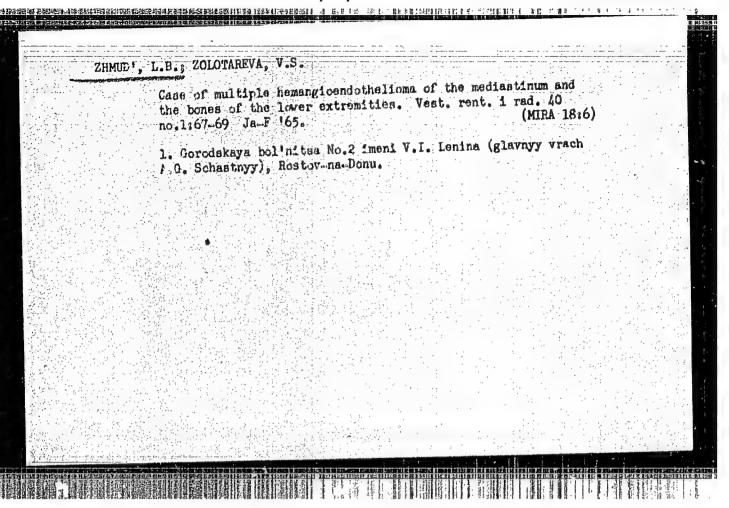


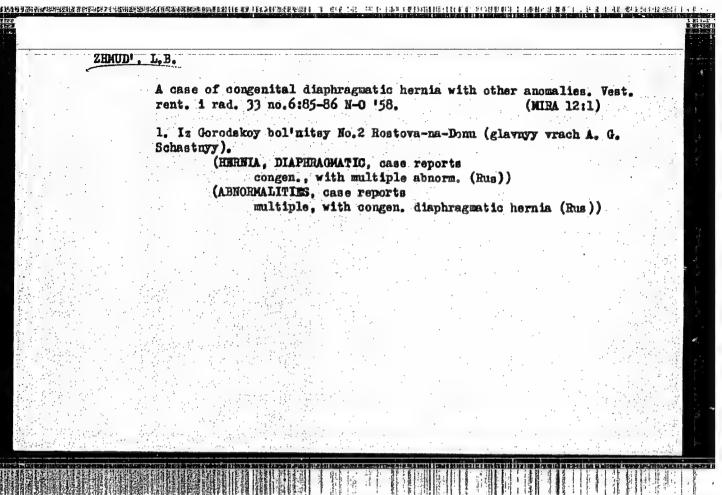
L.B. (Rostov-na-Donu, pr. Chekhov  A case of foreign body in the a			
79-80 Ja-1 159.	()	IIRA 12:3)	
l. Iz Gordskoy bol'nitsy No. 2 Schastnyy).	Rostova-na-Domi	(glavnyy vrach A.G.	
(APPENDIX, for. body needle (Rus))			

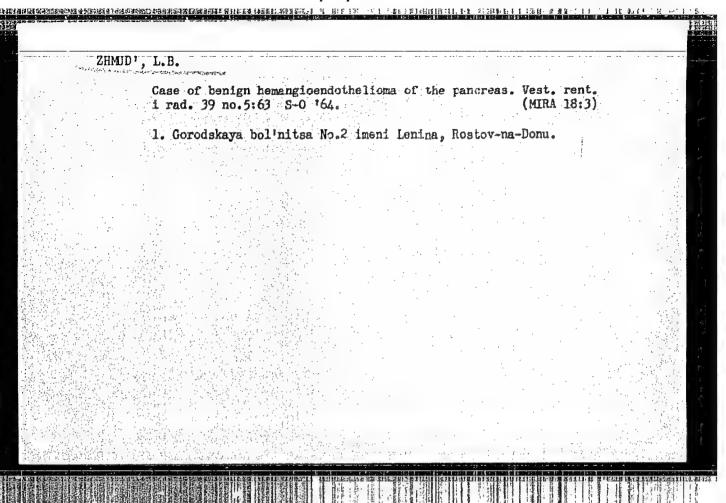
### ZHMUD', L.B.

Case of congenital anomaly of the urinary tract. Vestn. rent. 1 rad. 38 no.3:80 My-Ke 163. (MIRA 17:7)

1. Iz 2-y gorodskoy imani Lenina bol'nitsy (glavnyy vrach A.G. Schastnyy) Rostova-na-Donu.







ZHMUD', Ye.S.; BORONIN, V.S.; POLTORAK, O.M.

Dispersity of platinum on silica gel from X-ray study and hydrogen chemisorption data. Zhur. fiz. khim. 39 no.3:809-811 Mr '65.

(MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

5/078/62/007/011/002/005 B101/B186

AUTHORS:

Zhmud', Ye. S., Ivanova, A. B., Kotlyar, A. A., Ostapchenko, Ye. P.

X-ray examination of melts in the BaO - GeO2 system

TITLE

Zhurnal neorganicheskoy khimii, v..7, no. 11, 1962, 2581-2590

TEXT: Mixtures of BaCO3 with GeO2 in which both components varied between 0-100 mole% were sintered at 920-1250°C in air or at 920°C in a hydrogen atmosphere. X-ray spectra were recorded under CuKa radiation using the aragonite type of BaCO3 and rhombohedral GeO2. The lattice constants of these compounds agreed with published data (A. I. Kitaygorodskiy, Rentgenostrukturnyy analiz melkokristallicheskikh i amorfnykh tel (X-ray Analysis of Fine-crystalline and Amorphous Substances), Gostekhizdat, 1950)). Results. (1) Specimens sintered at 1050°C in air with a BaCO3:GeO2 ratio = 1:1 formed a single phase. On the basis of data obtained by H. Koelmans, C.M.G. Verhagen (J. Electrochem. Soc., 106, 677 (1959)), the single phase was identified as BaGeO3; it was present in a ratio of up to 1:3. Using BaCO3:GeO2 = 1:2, BaGe2O5 was formed, and using ratios of 2:8 and 1:3, the specimen contained unchanged GeO2 as well as BaGe2O5.

**APPROVED FOR RELEASE: 07/19/2001** CIA-RDP86-00513R002064830009-9"

X-ray examination of melts in the...

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the ratios 6:4, 2:1, 7:3, 3:1, 4:1, and 5:1, Ba2GeO4 was formed which, at 2:1, is present as a single phase; this was identified from the similarity of its structure to that of Ba2SiO4 (A. Austin, J. Amer. Ceram. Soc., 30, 218 (1947)). Using even higher proportions of BaCO3 gave rise to lines which were attributed to various barium hydroxides. (2) At 1250°C in air it was found that specimens containing 0-30% GeO, and 100-70% BaO produced BaO + Ba2GeO4; those with a content of 30-50% GeO2 produced BaGeO3 + Ba2GeO4; those with 50-100%  $GeO_2$  gave rise to  $BaGeO_3$  +  $GeO_2$ ; but  $BaGe_2O_5$  is not formed, for at this temperature it readily decomposes into BaGeO3 + GeO2. (3) At 920°C in a hydrogen atmosphere, using a Ba0:GeO2 ratio of 9:1, the phase composition was BaCO3 + X + traces of BaGeO4, where X denotes an unidentified phase probably consisting of various barium hydroxides. ratios from 5:1 to 7:3 the composition is 32GeO4 + X; at 2:1 the Ba2GeO4 occurs as a single phase; using 6:4 to 1:3 there are traces of Ge along Card 2/3

X-ray examination of melts in the...

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with the Ba<sub>2</sub>GeO<sub>4</sub>; using 2:8 there is Ba<sub>2</sub>GeO<sub>4</sub> + Ge, and for 1:9 there is Ge + Ba<sub>2</sub>GeO<sub>4</sub>. This paper was presented at the VII Nauchno-tekhnicheskoye soveshchaniye po primeneniyu rentgenovskikh luchey k issledovaniyu materialov (7th Scientific and Technical Conference on the Application of X-rays to Examination of Materials). Leningrad, 1961. There are 5 figures

SUBMITTED: February 23, 1962

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B/192/61/002/001/002/006 B107/B218

AUTHORS:

Zhmud', Ye. S. and Ostapchenko, Ye. P.

TITLE:

Radiographic study of the systems BaO - WO3, BaO - MoO3, and

Ba0 - Ta205

PERIODICAL:

Zhurnal strukturnoy khimii, v. 2, no. 1, 1961, 33-45

TEXT: The authors radiographically investigated the different phases of the systems BaO - WO<sub>3</sub>, BaO - MoO<sub>3</sub>, and BaO - Ta<sub>2</sub>O<sub>5</sub>. The compounds of these systems are of interest for developing thermionic emitters. The samples were prepared by annealing mixtures of BaCO<sub>3</sub> and Me oxide (Me = W, Mo, Ta) in the air, or in hydrogen. The samples were heated at 100°C/hr, and after two hr cooled in the furnace. For this investigation, PKA (RKD) cameras (diameter 57.3 mm) were attached to the apparatus YPC-55 (URS-55) and YPC-70 (URS-70) (copper \*mission). Besides, a device of the type YPC-50 (URS-50I) for recording the ionization of the scattered emission (scanning rate 2°/min) was used. The study of the system BaO - WO<sub>3</sub> at 1,200°C led to

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Radiographic study ...

the following results: BaO.WO, tetragonal, a being 5.56, and c being 12.76 A; 3BaO.WOz, pseudocubic, face-centered, a being 8.61; 2BaO.WOz, structure unknown. The d values for these compounds are given in Table 3. When storing in the open air at room temperature, tungstates remain unchanged for several months. An electron-microscope study with the microscope 3M-3 (EM-3) showed that, contrary to the other tungstates, 3Ba0.WO, is needle-shaped. Mixtures with a molar ratio BaCO, : WO, < 2:3 melted on heating. After careful studies, the authors came to the conclusion that a compound BaO.2WO, forms, which melts at 940-950°C. BaO.WO, was found to form already after 2-hr heating at 850°C. Table 4 gives data on the phases of the system BaO - MoOz. The X-ray pictures are very similar to those of tungstates of analog composition. The authors also synthesized 2BaO·MoO3 which is, however, unstable and decomposes within a few days. In the system BaO - Ta2O5, the authors synthesized five barium tantalates, by working with hydrogen atmosphere, and at different temperatures:

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5/192/61/002/001/002/006 Radiographic study ... B107/B218 4 BaO.Ta205, 7BaO.3Ta205, BaO.Ta205, and 3BaO.Ta205. It is possible that the compounds 7Ba0.Ta205 and 3Ba0.Ta205 are actually 2.5Ba0.Ta205 and Ba0.2.5Ta205 respectively. The experimental results are given in Table 5. Table 6 shows the d values for the following compounds: 7Ba0.3Ta205, 4Ba0.Ta205, and 5BaO·Ta2O5. Practically, the same results were obtained when heating the system BaO - Ta2O5 in air to 1,100, 1,200, and 1,300°C. Nevertheless, the authors state that the results concerning the above system are not yet and need a further proof. There are 7 figures, 6 tables, and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications read as follows: E. G. Steward, H. P. Rocksby. Nature, 157, 548 (1946); R. G. Hughes, P. P. Coppola, T. H. Evans. J. Appl. Physics, 23, no. 6, 635 (1952); E. G. Steward, H. P. Rooksby. Acta crystallogr., 4, 503 (1951). SUBMITTED: February 28, 1959 Card 3/10

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Table 3: Relatitungstates. Legend: 1) num	1 4 (2.1 )	100		spa	cing	of	the	roen	tgeno	gramı	s of barium
	B40-1	NO.			2BaC	·WO,				BAO.W	0
	минии Т	d (A)	M. SHREET		d (Å)	MMMH MMMHH	ď,	d (A)	©M. BREEK	1	4 (A)
	1 100 2 33 3 44 4 68 5 18 6 35 7 47 8 37 10 13 11 27 12 14 13 8 14 14	3,34 3,17 2,78 2,09 1,97,4 1,85,6 1,67,6 1,57,6 1,35,1 1,28,1 1,23,1 1,23,1 1,23,1 1,20,6	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	44 17 100 87 62 46 44 31. 22 17 25 22 49 10 40	3.50 3.32 3.16 3.07 2.97 2.84 2.72 2.84 2.26 2.21 2.18 2.10 2.19 2.19 2.19 2.19 2.19 2.19 2.19 2.19	17 18 19 20 21 22 23 24 25 26 27 28 29 30	9 26 35 14 33 22 24 21 15 11 4 15 32 8	1.89 1.84 1.76 1.74 1.71 1.68 1.66 1.63 1.55 1.49 1.43 1.39 1.39	1 2 3 4 5 6 7 8 9 10 11 12 13 14	100 5 29 38 7 13 7 12 2 3 4 3 7	3,05    2,58    2,58    1,55    1,65    1,52    1,46    1,27,    1,23    1,15

Radiographic study  Table 4: Experimental results of the system BaO - MoO <sub>3</sub> , annealing in air. Legend: 1) BaCO <sub>3</sub> :MoO <sub>3</sub> in moles; 2) phase composition of the samples after  2-hr heating in air to °C; temperature rise within about 4 hr, cooling in the furnace; **temperature rise within about 5 hr, cooling in the furnace; temperature rise within about 6 hr, cooling in the furnace; ture rise at 100°C/hr, cooling in the furnace; 3) the sample volatized; cheat - traces.  Table 5: Experimental results of the system BaO - Ta <sub>2</sub> O <sub>5</sub> , annealing in hydrogen. Legend: 1) phase composition of the samples after 2-hr heating in hydrogen to °C; Cheau - traces.		89999
Legend: 1) BaCO <sub>3</sub> :MoO <sub>3</sub> in mole%; 2) phase composition of the samples after  2-hr heating in air to OC; temperature rise within about 4 hr, cooling in the furnace; temperature rise within about 5 hr, cooling in the furnace; temperature rise within about 6 hr, cooling in the furnace; temperature rise at 100°C/hr, cooling in the furnace; 3) the sample volatized; coeau - traces.  Table 5: Experimental results of the system BaO - Ta <sub>2</sub> O <sub>5</sub> , annealing in hydrogen.  Legend: 1) phase composition of the samples after 2-hr heating in hydrogen to OC; CACAU - traces.	Radiographic study	S/192/61/002/001/002/006 B107/B218
2-hr heating in air to°C; temperature rise within about 4 hr, cooling in the furnace; **temperature rise within about 5 hr, cooling in the furnace; temperature rise within about 6 hr, cooling in the furnace; ture rise at 100°C/hr, cooling in the furnace; 3) the sample volatized; caeau - traces.  Table 5: Experimental results of the system BaO - Ta2O5, annealing in hydrogen.  Legend: 1) phase composition of the samples after 2-hr heating in hydrogen to°C; CAEAU - traces.	Table 4: Experimental results of Legend: 1) BaCO3: MoO3 in moles;	the system BaO - MoOz, annealing in air. 2) phase composition of the samples after
hydrogen. Legend: 1) phase composition of the samples after 2-hr heating in hydrogen to oc; CARAN - traces.	2-hr heating in air to °C; ter in the furnace; **temperature rise ***temperature rise within about ture rise at 100°C/hr, cooling in	mperature rise within about 4 hr, cooling within about 5 hr, cooling in the furnace; 6 hr, cooling in the furnace;
	hydrogen. Legend: 1) phase composition of	
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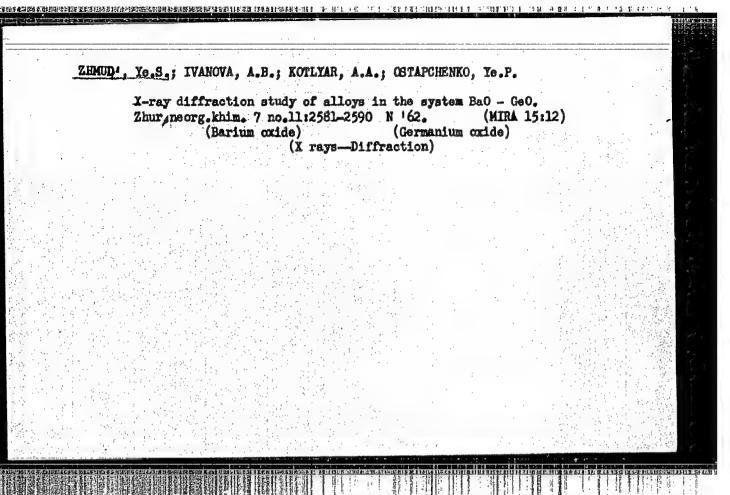
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		C. C. CASOBELL	BaCOs+BaO-MoOs+crems MoOs			*O.M-00M-00			BaO-MoOs + MoOs + BaCOs	BaO · MoOs+MoOs+BaCOs+ + (?) cuerm BaO · 2MoOs	+ 00*+BeCO.+	+ (7) BaO.2MoO,	+(?)BaO.ZMoC	+Baco.	0.2MeO.		BaCOs+B	aO·MoOs	X
		<b>5.</b>	COs+BaO-Mc			BaCO <sub>2</sub> +BaO			140-MoO.+ )	40.MoO.+W	0.MoO. + M.	+ (?) Ba	+BaO.MoO.	+Ba	MoOs+BaO·MoOs+BacOs+ + (?) BaO·2MoOs	A Charles of the Control of the Cont			
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		9 9	8	83,34	8	K	8	68,67	8	8	9	33,33	8	82	9		BaO-MoOs []	BaO · 2MoO <sub>3</sub>	
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[• <b>5</b> ], prof		на воздухе в течение 2 часов при теми	ературах; \$/192/61/002/001/002/006
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10			ВаСО₃+3ВаО·МоО₃+ + (?) следы ВаО·МоО₃ + (?)
		BaCO <sub>2</sub> + 2BaO·MoO <sub>2</sub> + + следы 3BaO·MoO <sub>3</sub>	3BaO·MoO₂+(?) ВаО·MoO₂+; +(?)следы2BaO·MoO₂+; ВаСО₂+(?)
			3BaO·MoO <sub>8</sub> + (?) BaO·MoO <sub>8</sub> + + BaCO <sub>8</sub> + (?)спеды 2BaO·MoO <sub>8</sub> + (?)
-15	Table 5	ВаСО <sub>2</sub> + 2ВаО·МоО <sub>2</sub> + + следы ЗВаО·МоО <sub>2</sub> + ВаО·МоО <sub>3</sub>	2BaO·MoO <sub>3</sub> +(?) BaCO <sub>3</sub> + -+(?) BaO·MoO <sub>8</sub>
	CONT.	BaO.MoO₂ + 2BaO·MoO₂ + + (?) следы ВаСО₃	BaO-MoO <sub>3</sub> +2BaO-MoO <sub>3</sub> +(?)BaCO <sub>3</sub>
		2BaO·MoO <sub>3</sub> +BaO·MoO <sub>3</sub> +(?)BaCO <sub>3</sub>	BaO·MoO <sub>s</sub> +2BaO·MoO <sub>s</sub> + + (?) спеды BaCO <sub>s</sub>
		BaO·MoOs+2BaO·MoOs	BaO·MoO <sub>3</sub> + 2BaO·MoO <sub>3</sub>
		BaO·MoO.	BaO·MoO <sub>a</sub> V
.5		ВаО-МоОа-ј-следы ВаО-2МоОа	BaO·MoO <sub>2</sub> + (?) следы ВаО·2МоО <sub>2</sub>
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	<b>3</b>	100 100 100 100 100 100 100 100 100 100	5BaO.Ta,G, + (?)	SBaO.Ta,O,		5BaO.TaiOs+		5BaO.Ta,O,+7BaO.3Ta,O,+ + cnam BaO.Ta,O, 7BaO.3Ta,O,+5BaO.Ta,O,+	+cream BaO·Ta <sub>2</sub> O <sub>2</sub> + - + cream B·Ta <sub>2</sub> O <sub>3</sub>	7BzO.3Ta,Oy-cnemu BaO. -Ta,Oz-cnemu B.Ta,Oz	7B&O.3TerOs+BaO.TerOs+ +p-TerOs	7Ba0-3Ta40,+8-Ta20,+ +Ba0-Ta30,		+78=0-3T=0.	B-TasOs+BaO-TasOs	B-Ta <sub>6</sub> O <sub>6</sub>	
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	0	5BaO. Ta3O.+(?)	,0°s	BaO.	4BaO-TasOs+ cregus 5BaO-TasOs	7BaO	7BaO-3TagOs		3BaO	64.0	7Ta,0, + BaO. Ta,0,	37a,0 37a,0 8-7a,0	+0.3	1.8.1		arOs+a-Ta		3ВаО-7Та <sub>2</sub> О <sub>3</sub> +ВаО-Та <sub>2</sub> О + следы 7ВаО-3Та <sub>2</sub> О	74
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YE. S. ZHUND', V. N. IVANOVA, and YE. P. CSTAPCHENKO

"Roentgen Investigations of the Structure of Tantalates and Preliminary Results of Their Application to Metal-Capillary Cathodes from Anneotations of Works Completed in 1955 at the State Union Sci. Res. Iust; Min. of Radio Engineering Ind.

So; B-3,080,964

ZHMUDENKO, A.S., inzh.; FARAFONOV, I.I., kand.tekhn.nauk; KIYANITSA, G.I., inzh.; FILATOV, L.V., inzh.

Efficient use of bits in the boring of holes with an air drill in granite quarries. Izv.vys.ucheb.zav.; gor.zhur. 7 no.12:38-42 '64. (MIRA 18:2)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut (for Zhmudenko). 2. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti UkrSSR (for Farafonov, Kiyanitsa, Filatov). Rekomendovana kafedroy tekhnologii i mekhanizatsii gornykh rabot Kiyevskogo politekhnicheskogo instituta.

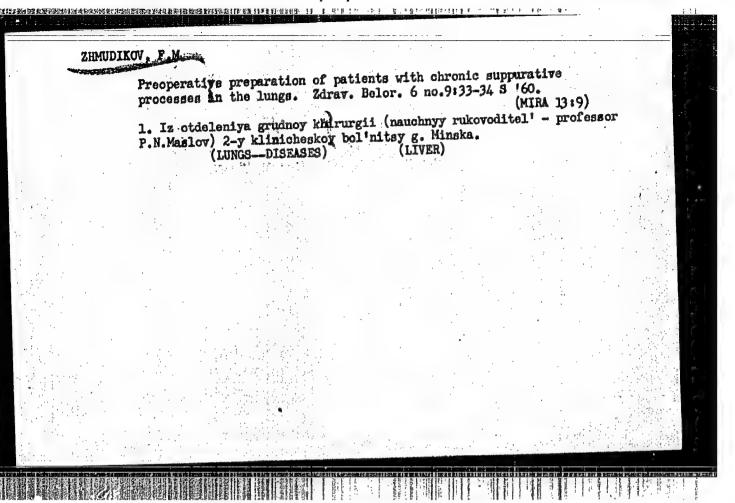
ASTAPENKO, V.G., assistent; ZHMIDIKOV, F.M., klinicheskiy ordinator

Serious candidomycosis sepsis with atypical clinical course. Zdrav.

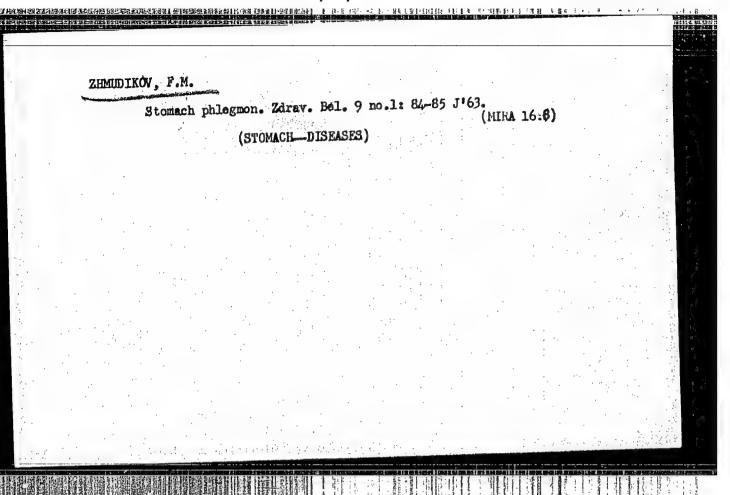
Belor. 5 no.10:70-71 0 \*59. (MIRA 13:2)

1. Is fakul'tetskoy khirurgicheskoy kliniki (zaveduyushchiy - prof.
P.N. Maslov) Minskogo meditsinskogo instituta.

(MONILLASIS)



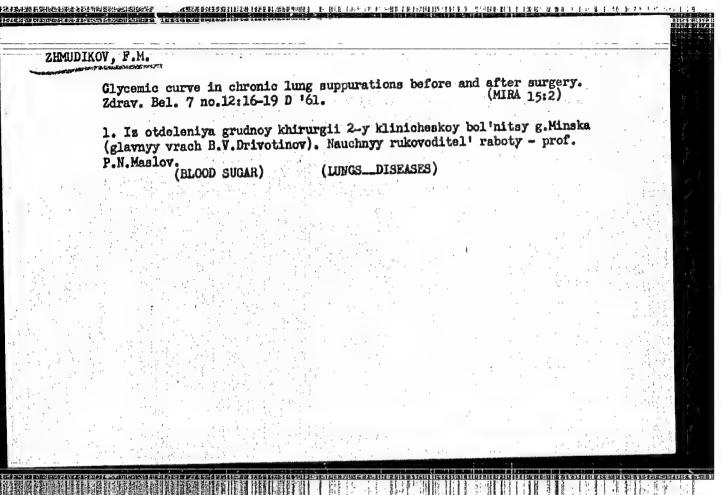
ZHMUDIKOV, F. M., Cand. Medic. Soi. (diss) "Functional Condition of Liver in Patients with Chronic Suppurative Processes of Lungs under Surgery of Liver," Minsk, 1961, 16 pp. (Smolensk Med. Inst.) 275 copies (KL Supp 12-61, 284).



# LOS', G.F., dotsent; ZHMUDIKOV, F.M.

Late results of lung resection in chronic suppurative processes. Zdrav. Bel. 9 no.2:7-9 F'63. (MIRA 16:7)

1. Iz kafedry fakul tetskoy khirurgii (zaveduyushchiy kafedroyprof. P.N.Maslov) Minskogo meditsinskogo instituta. (LUNGS—ABSCESS) (LUNGS—SURGERY)



AKSENT'YEV, S.B.: YERMULOVICH, Ya.V.: ZHMUDSKAYA, L.F.: REZNICHENKO, L.G. Studying conditioned and unconditioned vascular reflexes as a method for analyzing corticovisceral relations in various diseases. [with summary in English]. Zhur.vys.nerv.deist. 7 no.1:49-57 Ja-F. 57. (MIRA 10:10) 1. Odesskiy meditsinskiy institut im. N.I.Pirogova i Odesskiy nauchno-issledovatel'skiy psikhonevrologicheskiy institut. (BLOOD VESSELS, physiology conditioned & unconditioned vasc. reflexes in analysis of cortico-visceral relations in various dis. (Rus)) (REFLEX, CONDITIONED, wasc. reflexes in analysis of cortico-visceral relationship in various dis. (Rus)) (REFLEX. unconditioned wasc. reflexes in analysis of corticovisceral relationship in various dis. (Rus)) (CEREBRAL CORTEX, physiology, cortico-visceral relationships, determ. i various diseases by conditioned & unconditioned vasc. reflexes (Rus))

USSR / Human and Animal Physiology. Blood Circulation. The Vessels.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101887.

Author : Aksent'yev, S. B.; Yermulovich, Ya. V.; Zhmudskaya,

L. F.; Reznichenko, L. G.

Inst : Not-given.

Title : On Appearances of Dominant, Parabiosis and Hysteri-

osis in the Vascular Reflectory Activity of Man.

Orig Pub: V sb.: Ucheniye N. Ye. Vvedenskogo v klinich. prak-

tike. Odessa, 1957, 124-129.

Abstract: In patients with various diseases, disturbances in the course of vascular reflexes to cold and hot stimuli were observed which is regarded by the author as various stages of parabiosis, hysteriosis

and dominant.

Card 1/1

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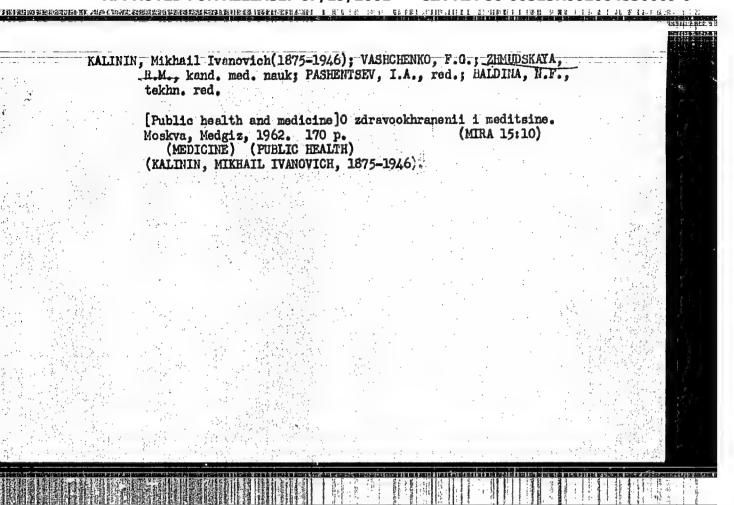
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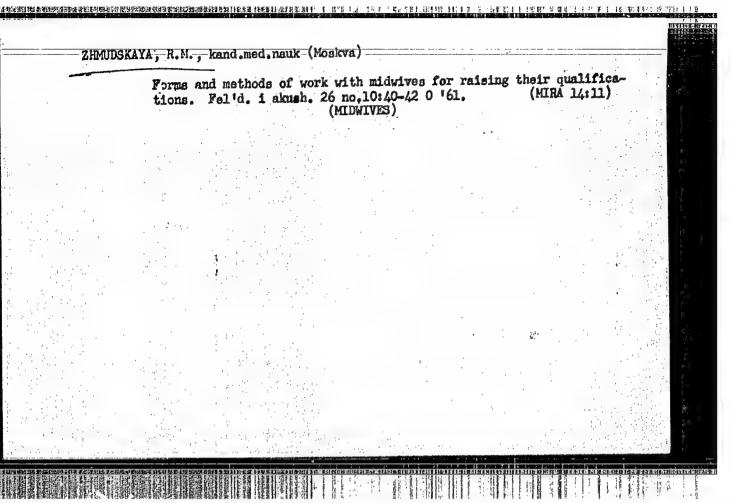
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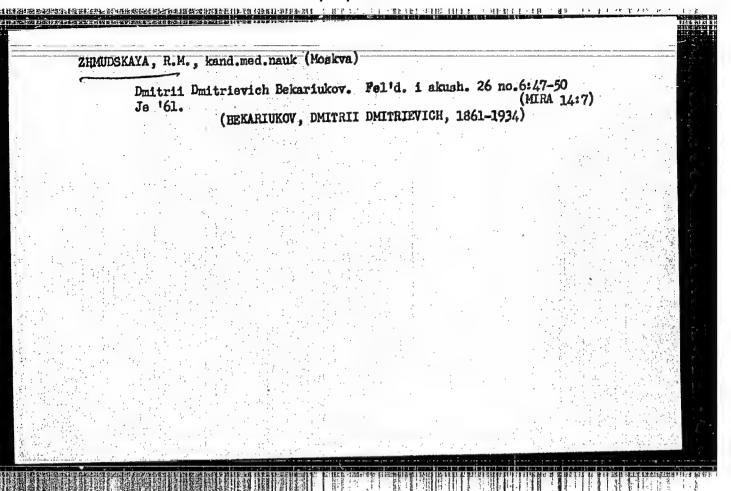
ZHAUDSKAYA, R.M., kand.med.nauk (Moskva)

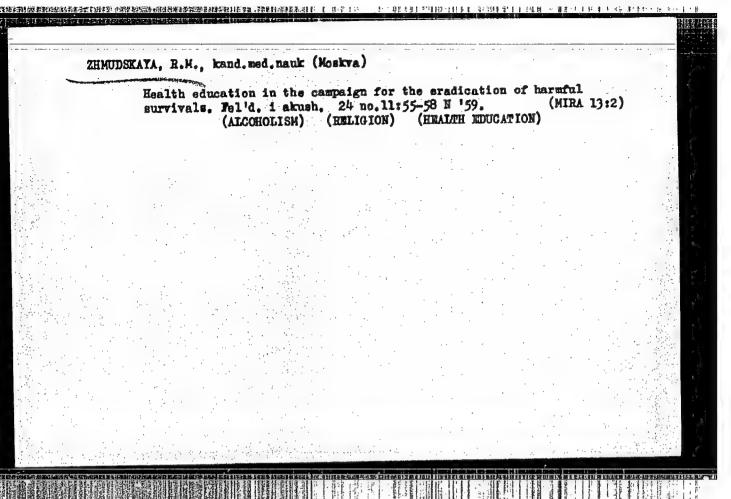
In memory of Irène Joliot-Curie. Fel'd. i akush. 26 no.11:38-41
N'61. (JOLIOT\_CURIE, IRENE, 1897-1956)

(JOLIOT\_CURIE, IRENE, 1897-1956)





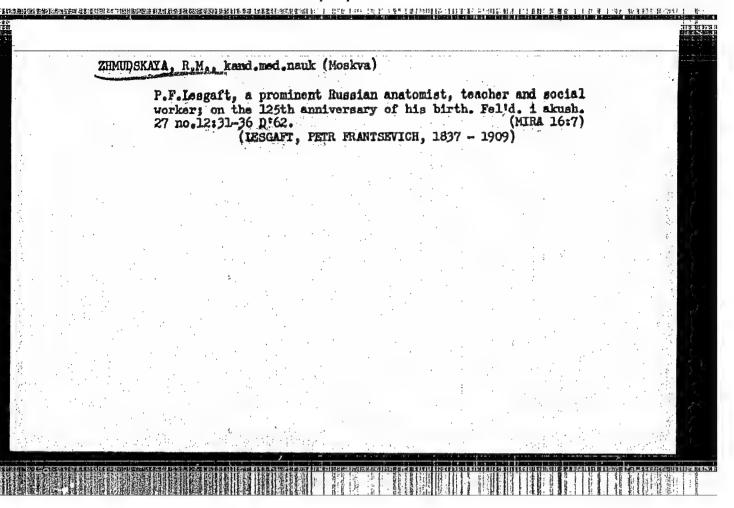


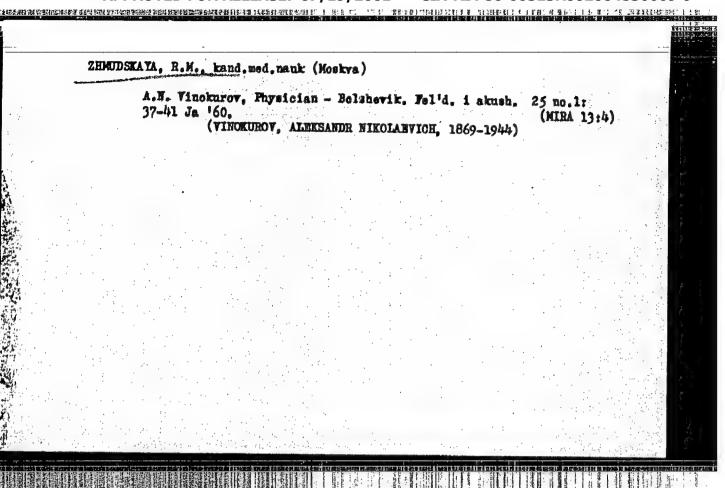


ZHLUDSKAYA, L.F., Cend Med Sci — (diss) "Vascular conditions and unconditioned reflexes in patients with rheumatic heart defects and circulary insufficiency." Vladimir, 1959. 13 pp (Odessa State Med Inst im N.I. Pirogov).

200 copies (KL,40-59, 106)

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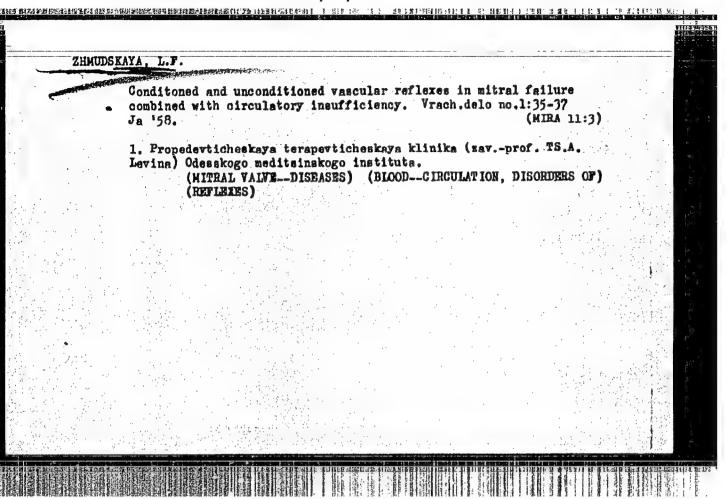


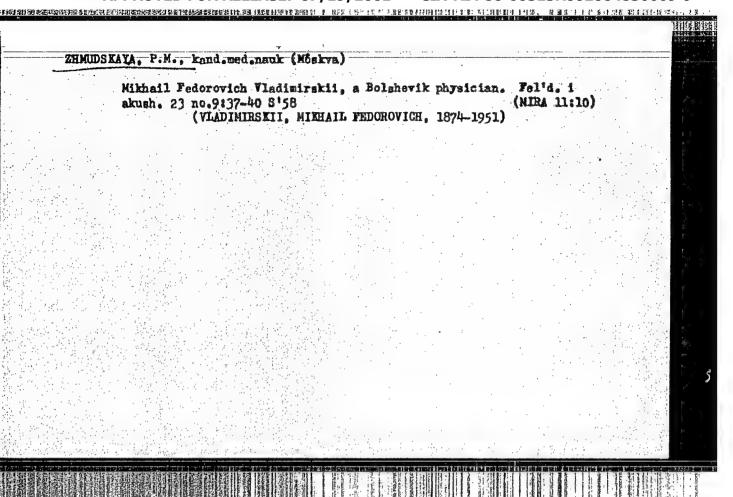
ZHMUDSKAYA, R.M., kand.med.nauk (Moskva)

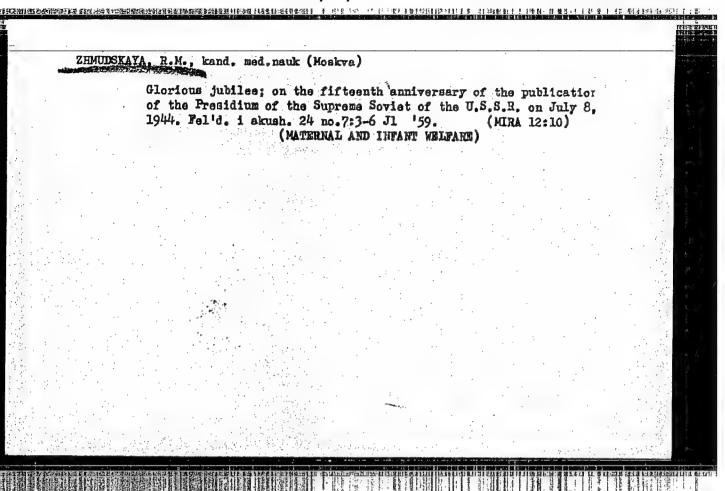
Tasks of a village midwife in protecting the health of children during the first year of life. Fel'd. i akush. 24 no.12:3-8 D '59.

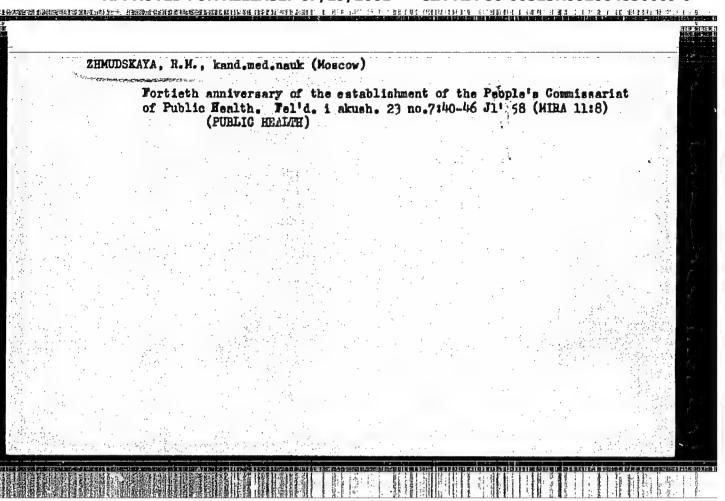
(MIRA 13:2)

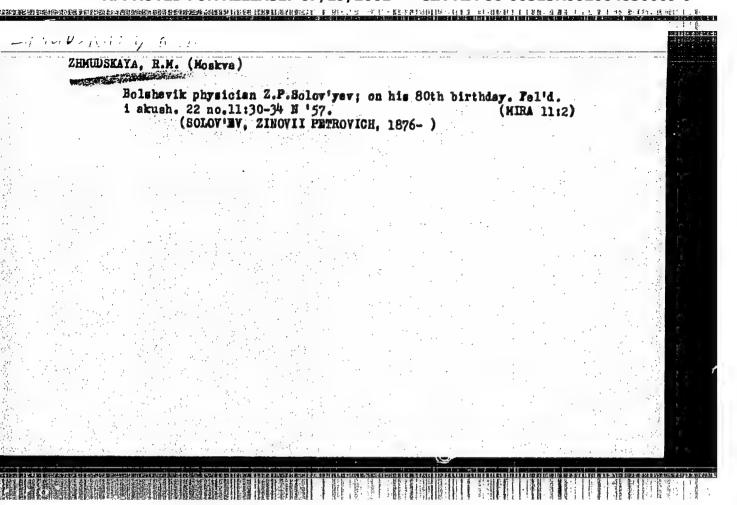
(INFANTS—CARE AND HYGIENE) (NURSES AND NURSING)

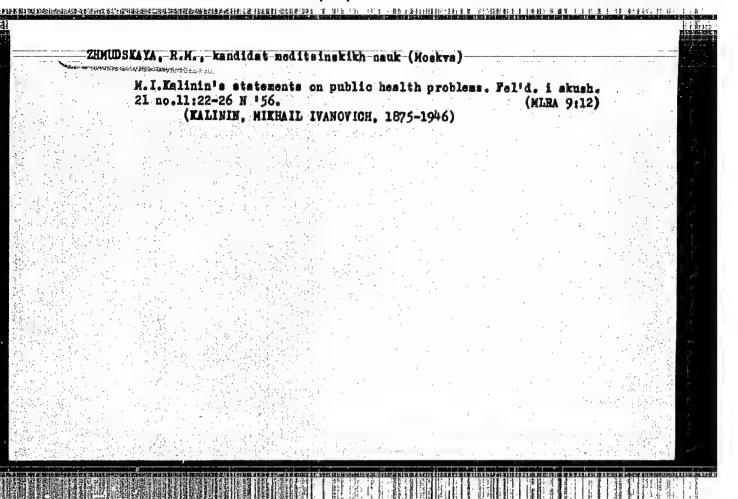


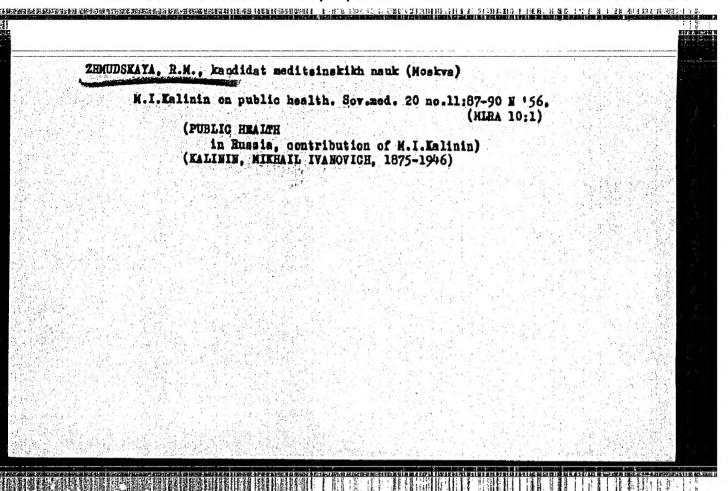


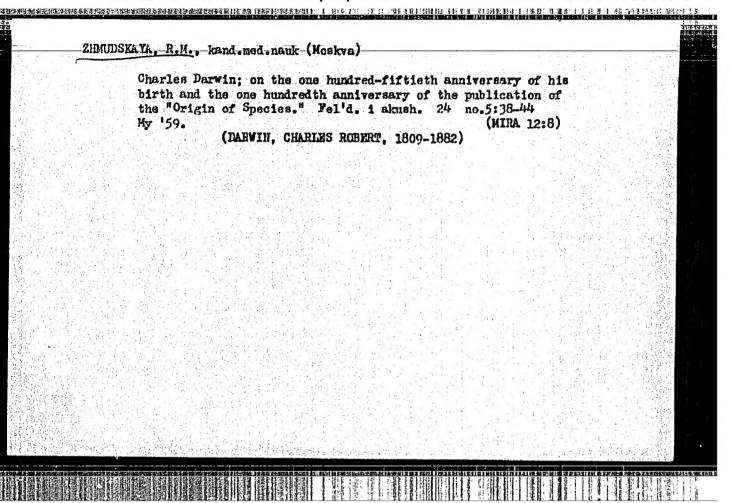












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